

ABSTRACT

**PROSES DASAR PERLAKUAN LOGAM (PDPL) / METAL TREATMENT
BASIC PROCESS LEARNING RESULT IMPROVEMENT THROUGH
COOPERATIVE LEARNING APPROACH *STUDENT TEAMS ACHIEVEMENT
DIVISION (STAD)* TYPE FOR TEENTH GRADE STUDENTS OF
MUHAMMADIYAH 3 VOCATIONAL HIGH SCHOOL IN YOGYAKARTA**

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The purposes of this study are to know the method application of cooperative learning Student Teams Achievement Divisions (STAD) type in learning Proses Dasar Perlakuan Logam (PDPL) and to know the method application of cooperative learning STAD type can improve PPDL learning outcomes for teenth grade students of Muhammadiyah 3 vocational high school.

This research is a classroom action Research or which was held in Muhammadiyah 3 vocational high school. Every single cycle was taken one time. Starting with planning phase, implementation of action, observation, and reflection. The data analysis was performed by comparison between the observation result in Cycle I, Cycle II and Cycle III with qualitative descriptive technique and described in the average value of learning outcomes and the percentage of students' learning activities.

These research results showed the application of cooperative learning approach through classroom presentation, group work, quizzes, and team awards in the subject PDPL with STAD type of cooperative learning strategy is increased and quite good. Improvement activity of students from cycle I to cycle II is described by of 3.07 (61.4%) average score and adequate category in the first cycle is increasing to 3.5 (57%) in the second cycle in good categories. In addition, there was an improvement from cycle II to cycle III so, from mean score of 3.5 (57%) in good categories in the second cycle to 3.9 (94%) in good categories in cycle III. The average score of student learning outcomes value which less than 75.00 is decreasing from sixteen students (66.7%) in the first cycle to eight students (34.8%) in the second cycle and no more students who scored under 75.00 in the third cycle so we can say all students experienced learning outcomes completely.

Keywords: Cooperative Learning Strategies type STAD, Teacher and Student Activities, Improve learning outcomes Student